

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant: Medsker et al.

Serial No.: This application is a divisional application of U.S. Serial No. 10/142,229 filed May 9, 2002, which is a continuation-in-part application of Serial No. 09/855,053, filed on 05/14/01

For: POLYMERIC SURFACTANTS DERIVED FROM CYCLIC MONOMERS
HAVING PENDANT FLUORINATED CARBON GROUPS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This invention relates to a fluorine containing polymer which acts as a wetting, flow or leveling agent, and has at least one polar group. The polymer has at least one pendant or short side chain containing from about 1 to about 7 carbon atoms with at least 25% of the hydrogen atoms being replaced by fluorine atoms. The fluorinated polymers unexpectedly impart wetting, flow or leveling properties to a variety of coatings while producing little foam.

As authorized and encouraged under 37 C.F.R. §1.97-1.99, applicant hereby cites as a means of complying with the duty of disclosure set forth in 37 C.F.R. §1.56, the following patents and/or documents, copies enclosed, which the Examiner should consider with respect to the above-identified United States Patent Application:

U.S. PATENT DOCUMENTS		
U.S. PATENT/DOCUMENT NO.	DATE	INVENTOR/OWNER
2,995,571	August 8, 1961	Harris Jr.
3,096,344	July 2, 1963	Case
3,100,722	August 13, 1963	Hermann et al.
3,105,838	October 1, 1963	Luskin
3,164,610	January 5, 1965	Davis
3,210,298	October 5, 1965	Weissermel et al.
3,240,754	March 15, 1966	Plueddemann
3,385,812	May 28, 1968	Brachman
3,415,794	December 10, 1968	Orth et al.
3,457,193	July 22, 1969	Tinsley et al.
3,576,802	April 27, 1971	Luders et al.
3,609,156	September 28, 1971	Munakata et al.
3,636,132	January 18, 1972	Saegusa et al.
3,640,971	February 8, 1972	Katayama et al.
3,681,413	August 1, 1972	Sweeney et al.
3,692,801	September 19, 1972	Robinson, III et al.
3,779,942	December 18, 1973	Bolles
3,787,294	January 22, 1974	Kurosaki et al.
3,834,823	September 10, 1974	Seregely et al.
3,859,253	January 7, 1975	Bourat et al.
3,867,353	February 18, 1975	Hsieh et al.
3,922,457	November 5, 1975	Barnwell et al.
3,949,132	April 6, 1976	Seregely et al.
4,035,149	July 12, 1977	Scott et al.
4,051,195	September 27, 1977	McWhorter
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4,388,396	June 1, 1983	Nishibayashi et al.
4,521,571	June 4, 1985	Ishido et al.
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4,579,765	April 1, 1986	Schachtner
4,603,074	July 29, 1986	Pate et al.
4,686,275	August 11, 1987	Bryant et al.
4,709,060	November 24, 1987	Ohsaka et al.
4,746,576	May 24, 1988	Ozu et al.
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U.S. PATENT/DOCUMENT NO.	DATE	INVENTOR/OWNER
4,898,849	February 6, 1990	Kang
4,898,981	February 6, 1990	Falk et al.
4,946,992	August 7, 1990	Falk et al.
4,988,123	January 29, 1991	Lin et al.
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5,302,462	April 12, 1994	Shah et al.
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5,362,847	November 8, 1994	Miller et al.
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5,468,841	November 21, 1995	Malik et al.
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5,543,200	August 6, 1996	Hargis et al.
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5,584,977	December 17, 1996	Bachot et al.
5,599,883	February 4, 1997	Ohsugi et al.
5,603,818	February 18, 1997	Brent et al.
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5,649,828	July 22, 1997	Kawashima
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5,663,289	September 2, 1997	Archibald et al.
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5,674,951	October 7, 1997	Hargis et al.
5,681,890	October 28, 1997	Tanaka et al.
5,703,194	December 30, 1997	Malik et al.
5,714,266	February 3, 1998	Harrison et al.
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5,750,482	May 12, 1998	Cummings
5,753,316	May 19, 1998	Brent et al.
5,789,505	August 4, 1998	Wilkinson et al.
5,807,977	September 15, 1998	Malik et al.
5,824,464	October 20, 1998	Schell et al.
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5,861,365	January 19, 1999	Colurciello, Jr. et al.
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6,177,196	January 23, 2001	Brothers et al.
6,179,132	January 30, 2001	Moya
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6,200,457	March 13, 2001	Durand et al.
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6,479,623	November 12, 2002	Malik et al.
FOREIGN PATENT DOCUMENTS		
PATENT/DOCUMENT NO.	DATE	COUNTRY
348 350	December 27, 1989	EP
430 887	June 5, 1991	EP
63105029	May 10, 1988	JP Abstract
WO 96/18699	June 20, 1996	WIPO
WO 96/21657	July 18, 1996	WIPO
WO 96/23828	August 8, 1996	WIPO
WO 99/26992	June 3, 1999	WIPO
WO 99/45079	September 10, 1999	WIPO
WO 00/46270	August 10, 2000	WIPO
WO 01/48051	July 5, 2001	WIPO
WO 02/16306	February 28, 2002	WIPO
WO 02/34848	May 2, 2002	WIPO
ARTICLES/DOCUMENTS		
10 pgs of World Patent Index search results based on PVC and fluoro ...		
4 pgs of World Patent Index search results based on PVC and polyester coating.		
40 pgs of Chemical Abstract search results based on PVC and fluoro ...		
25 pages of Chemical Abstract search results based on PVC and polyester.		
CA entries and Derwent patent family printouts on JP 03275859; JP 04363370; JP 07004064; JP 07039812; JP 08283654; JP 6216941; and JP 63248827.		
Letter to Southwest Texas Distributions, Inc. dated 3/5/98 to Greg Nernes from Barry Bastion, Product Manager, GenCorp.		
Invoice to Southwest Texas Distributions, Inc. dated 4/9/98 from GenCorp.		
Copy of Supplemental Information Disclosure Statement regarding a sale on September 7, 1999 by the Assignee was made of a laminate containing a coating on a polyvinyl chloride substrate.		

Only copies of each foreign and article documents are included for the express purpose of providing the Patent and Trademark Office with an ample opportunity to evaluate the same and to arrive at an independent assessment of its materiality, if any, with regard to the examination of the application.

In reviewing the enclosed copies of the above publications, the Examiner is requested to ignore any underscoring or highlighting which may appear because such markings may or may not have any relationship to the subject matter of the above-identified application. The copies being submitted with this Information Disclosure Statement are the best copies available at this time.

An examination of the present application considering the above document is requested.

Respectfully submitted,

HUDAK, SHUNK & FARINE CO. LPA

A handwritten signature in cursive script, appearing to read "Daniel J. Hudak".

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Attorney Docket No.: GT-5362

(GC-GD-CIP-DIV)

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	Atty. Docket No.: GT-5362 (GC-GD-CIP-DIV)	Serial No.:
	Applicant: Medsker, et al.	
	Filing Date: September , 2003	Group:

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing date if appropriate
	AA	2,995,571	August 8, 1961	Harris Jr.			
	AB	3,096,344	July 2, 1963	Case			
	AC	3,100,722	August 13, 1963	Hermann et al.			
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	AE	3,164,610	January 5, 1965	Davis			
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	AH	3,385,812	May 28, 1968	Brachman			
	AI	3,415,794	December 10, 1968	Orth et al.			
	AJ	3,457,193	July 22, 1969	Tinsley et al.			
	AK	3,576,802	April 27, 1971	Luders et al.			

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	AL	348 350	December 27, 1989	EP			
	AM	430 887	June 5, 1991	EP			
	AN	63105029	May 10, 1988	JP Abstract			
	AO	WO 96/18699	June 20, 1996	WIPO			
	AP	WO 96/21657	July 18, 1996	WIPO			

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	10 pages of World Patent Index search results based on PVC and fluoro ... coating.
	AS	4 pages of World Patent Index search results based on PVC and polyester coating.
	AT	40 pages of Chemical Abstract search results based on PVC and fluoro ... coating.

EXAMINER

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	AF	3,779,942	December 18, 1973	Bolles			
	AG	3,787,294	January 22, 1974	Kurosaki et al.			
	AH	3,834,823	September 10, 1974	Seregely et al.			
	AI	3,859,253	January 7, 1975	Bourat et al.			
	AJ	3,867,353	February 18, 1975	Hsieh et al.			
	AK	3,922,457	November 5, 1975	Barnwell et al.			

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	AL	WO 96/23828	August 8, 1996	WIPO			
	AM	WO 99/26992	June 3, 1999	WIPO			
	AN	WO 99/45079	September 10, 1999	WIPO			
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	AC	4,059,451	November 22, 1977	Oita et al.			
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	AE	4,098,654	July 4, 1978	Helle et al.			
	AF	4,107,055	August 15, 1978	Sukornick et al.			
	AG	4,118,541	October 3, 1978	Power et al.			
	AH	4,222,828	September 16, 1980	Zuurdeeg			
	AI	4,278,773	July 14, 1981	Kleber et al.			
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	AL	WO 96/23828	August 8, 1996	WIPO			
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	AD	5,685,755	November 11, 1997	Zabasajja et al.		
	AE	5,650,483	July 22, 1997	Malik et al.		
	AF	5,654,450	August 5, 1997	Malik et al.		
	AG	5,663,289	September 2, 1997	Archibald et al.		
	AH	5,668,250	September 16, 1997	Malik et al.		
	AI	5,668,251	September 16, 1997	Malik et al.		
	AJ	5,674,951	October 7, 1997	Hargis et al.		
	AK	5,681,890	October 28, 1997	Tanaka et al.		

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Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	Atty. Docket No.: GT-5361 (GC-GD-CIP-DIV) Applicant: Medsker, et al. Filing Date: September 2003	Serial No.: Group:
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	AA	5,703,194	December 30, 1997	Malik et al.		
	AB	5,714,266	February 3, 1998	Harrison et al.		
	AC	5,728,669	March 17, 1998	Tyerech		
	AD	5,731,095	March 24, 1998	Milco et al.		
	AE	5,746,954	May 5, 1998	Aikman, Jr.		
	AF	5,750,482	May 12, 1998	Cummings		
	AG	5,753,316	May 19, 1998	Brent et al.		
	AH	5,789,505	August 4, 1998	Wilkinson et al.		
	AI	5,807,977	September 15, 1998	Malik et al.		
	AJ	5,824,464	October 20, 1998	Schell et al.		
	AK	5,849,944	December 15, 1998	Allen et al.		

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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				Applicant: Medsker, et al.			
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	AA	5,861,365	January 19, 1999	Colurciello, Jr. et al.			
	AB	5,865,851	February 2, 1999	Sidoti et al.			
	AC	5,908,473	June 1, 1999	Weller et al.			
	AD	5,912,291	June 15, 1999	Sterling et al.			
	AE	5,919,851	July 6, 1999	Yamaguchi et al.			
	AF	5,942,572	August 24, 1999	Chittofrati et al.			
	AG	5,952,422	September 14, 1999	Chang et al.			
	AH	5,955,414	September 21, 1999	Brown et al.			
	AI	5,965,659	October 12, 1999	Kubo et al.			
	AJ	5,976,349	November 25, 1999	Kuntzburger et al.			
	AK	5,976,702	November 2, 1999	Yoneda et al.			

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	AA	5,981,614	November 9, 1999	Adiletta			
	AB	5,993,907	November 30, 1999	Aikman, Jr.			
	AC	5,998,574	December 7, 1999	Fishback et al.			
	AD	6,010,539	January 4, 2000	Del Pesco			
	AE	6,015,838	January 18, 2000	Stern et al.			
	AF	6,015,914	January 18, 2000	Sasaki et al.			
	AG	6,020,451	February 1, 2000	Fishback et al.			
	AH	6,022,925	February 8, 2000	Tomko et al.			
	AI	6,033,737	March 7, 2000	Johnson et al.			
	AJ	6,036,735	March 14, 2000	Carter et al.			
	AK	6,037,483	March 14, 2000	Malik et al.			

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	AA	6,065,153	May 23, 2000	Underwood et al.			
	AB	6,099,704	August 8, 2000	Bacquet et al.			
	AC	6,111,043	August 29, 2000	Corpart et al.			
	AD	6,114,045	September 5, 2000	Juhue et al.			
	AE	6,124,388	September 26, 2000	Takai et al.			
	AF	6,127,507	October 3, 2000	Santerre			
	AG	6,127,517	October 3, 2000	Koike et al.			
	AH	6,168,866	January 2, 2001	Clark			
	AI	6,177,196	January 23, 2001	Brothers et al.			
	AJ	6,179,132	January 30, 2001	Moya			
	AK	6,180,243	January 30, 2001	Johnson et al.			

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	AA	6,192,520	February 27, 2001	Underwood et al.		
	AB	6,200,457	March 13, 2001	Durand et al.		
	AC	6,200,732	March 13, 2001	Tamura et al.		
	AD	6,225,367	May 1, 2001	Chaouk et al.		
	AE	6,239,247	May 29, 2001	Allewaert et al.		
	AF	6,255,267	July 3, 2001	Nayar et al.		
	AG	6,255,384	July 3, 2001	McCarthy et al.		
	AH	6,479,623	November 12, 2002	Malik et al.		
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